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ABSTRACT

The course outline is designed to provide instruction in selecting, preparing, and installing wall finishing materials. Prerequisites for the course include mastery of building construction plans, foundations and walls, and basic mathematics. Intended for use in grades 11 and 12, the course contains five blocks of study totaling 135 hours of instruction. Upon completion of the course, the student will have mastered techniques in preparing exterior walls (plaster, brick, stone, wood, and metal siding), and metal windows and trims. Teaching methods include classroom lectures, textbook references, and laboratory exercises. Emphasis is placed on the exploratory and manipulative processes. A bibliography and sample post-test are appended. (MW)

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AUTHORIZED COURSE OF INSTRUCTION FOR THE QUINMESTER PROGRAM

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Course Outline

CARPENTRY - 9163
(Wall Finishes)

Department 48 - Quin 901895

DADE COUNTY PUBLIC SCHOOLS

DIVISION OF INSTRUCTION • 1974

CE003334

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D A D E C O U N T Y P U B L I C S C H O O L S

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M I A M I, F L O R I D A 33132

Course Outline

CARPENTRY - 9163
(Wall Finishes)

Department 48 - Quin 901895

county office of

VOCATIONAL AND ADULT EDUCATION

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Dade County Public Schools
Miami, Florida 33132

October 9, 1974

Published by the School Board of Dade County

COURSE DESCRIPTION

9163	48	901895	Wall Finishes
State Category Number	County Dept. Number	County Course Number	Course Title

Overview: A study of exterior and interior wall finishes, their purpose and application.

Objectives: Students will size, prepare and install wall finishes, including trim.

Content: A study of the selection, purpose and application of wood, metal and masonry materials.

Selection Considerations: Students in this course will be expected to have the skills and knowledge of building construction plans, foundations and walls, in addition to a basic knowledge of mathematics.

PREFACE

This seventh quinmester course outline is designed to provide instruction in selecting, preparing and installing wall finishing materials. The student will develop positive attitudes regarding the value and dignity of work.

Students in this course will be expected to have the skills and the knowledge of building construction plans, foundations and walls, in addition to a basic knowledge of mathematics.

This outline consists of nine quins to be presented in grades 11 and 12. It contains five blocks of study, which are subdivided into several units each and is 135 hours in length.

Teaching methods include classroom lectures, textbook references and laboratory exercises. Emphasis is placed on the exploratory and manipulative processes.

The bibliography lists materials offering additional information in the field of building construction.

This outline was developed through the cooperative efforts of the instructional and supervisory personnel and the Vocational Curriculum Materials Service, and has been approved by the Dade County Vocational Curriculum Committee.

TABLE OF CONTENTS
with Suggested Hourly Breakdown

	Page
PREFACE	i
GOALS	iii
SPECIFIC BLOCK OBJECTIVES	iv
BIBLIOGRAPHY	5
BLOCK -	
I. INTRODUCTION TO WALL FINISHING (10 Hours)	
Exterior Walls	1
Interior Walls	1
Windows	1
II. EXTERIOR WALLS (40 Hours)	
Plaster on Blocks or Concrete	1
Plaster on Sheathing	1
Brick or Stone on Concrete	2
Brick or Stone on Sheathing	2
Wood or Metal Siding on Sheathing	2
III. INTERIOR WALLS (60 Hours)	
Backing for Finishes	2
Plaster on Gypsum Lath	2
Gypsum Wallboard	2
Panel	3
Base Trim	3
IV. METAL WINDOWS AND TRIMS (24 Hours)	
Installation in Concrete	3
Installation in Wood	3
V. QUINMESTER POST-TEST (1 Hour)	
APPENDIX - QUINMESTER POST-TEST SAMPLE	9

GOALS

The student must be able to:

1. Domonstrate the ability to perform the tasks of wall finishing.
2. Exhibit judgment in selecting and using the required tools and equipment.
3. Exhibit the ability to select size and apply wall finishing materials.
4. Demonstrate a positive attitude in dealing with the skills to be learned.
5. Develop pride and respect in the workmanship involved.

SPECIFIC BLOCK OBJECTIVES

BLOCK I - INTRUDICTION TO WALL FINISHING

The student must be able to:

1. Point out differences between interior and exterior walls.
2. Describe a concrete poured wall and a block wall.
3. Name some materials used for building different kinds of walls.

BLOCK II - EXTERIOR WALLS

The student must be able to:

1. Apply plaster to concrete blocks in a uniform and neat manner.
2. Fasten furring lath to a block or concrete wall, plumb and 16" O.C.
3. Plumb, size and secure a wall panel on inside of wall.

BLOCK III - INTERIOR WALLS

The student must be able to:

1. List the materials needed for paneling a rough concrete or block wall.
2. List the materials needed for applying gypsum board to a rough wall requiring horizontal nailing strips.
3. Describe methods for applying both panel and gypsum wall board.
4. Nail furring lath, plumb, size and install wall panel and gypsum wall board.
5. Measure, size and install baseboard and corner mold.

BLOCK IV - METAL WINDOWS AND TRIMS

The student must be able to:

1. Explain the differing needs and methods in preparing a block wall and a frame wall opening for a metal window installation.
2. Demonstrate the method of plumbing and leveling an opening for a window .
3. Explain or demonstrate the installation of a metal window.

BLOCK V - QUINMESTER POST-TEST

Course Outline

CARPENTRY - 9163
(Wall Finishes)

Department 48 - Quin 901895

I. INTRODUCTION TO WALL FINISHING

A. Exterior Walls
   1. Weather proofing
      a. Poured concrete
      b. Concrete block
      c. Wood frame
         (1) Windows
         (2) Doors
   2. Outside appearance
      a. Plaster
      b. Brick
      c. Wood
      d. Stone

B. Interior Walls
   1. Purposeful
      a. Acoustics
      b. Fixtures and cabinets
      c. Charts or chalkboards
      d. Decorative
   2. Inside appearance
      a. Plaster
      b. Wood panel
      c. Compositions and acoustics

C. Windows and Trims
   1. Windows
      a. Awning and jalousie
      b. Casement
      c. Glide-by
   2. Doors and archways
      a. Solid
      b. Flush
      c. Sliding glass

II. EXPERIOR WALLS

A. Plaster on Blocks or Concrete
   1. Rough base coat
   2. Finish coat
   3. Sealer
      a. Lime base
      b. Plastic base

B. Plaster on Sheathing
   1. Building felt or plastic
   2. Wire lath

3. Rough base coat
4. Finish coat
5. Sealer
    a. Lime base
    b. Plastic base

C. Brick or Stone on Concrete Block
1. Metal anchors
2. Brick or stone
    a. Genuine
    b. Imitation

D. Brick or Stone on Sheathing
1. Building felt or plastic
2. Metal anchors
3. Brick or stone
    a. Genuine
    b. Imitation

E. Wood or Metal Siding on Sheathing
1. Building felt or plastic
2. Wood or metal siding
    a. Shingle
    b. Wood or metal bevel
    c. Wood tongue and groove
    d. Wood batten

III. INTERIOR WALLS

A. Backing for Finishes
1. Frame wall
    a. Studs
    b. Horizontal nailing strips
2. Concrete or concrete block
    a. Furring lath
    b. Horizontal nailing strips
3. Metal studs
    a. Bare studs
    b. Horizontal nailing strips

B. Plaster on Gypsum Lath
1. Rough coat
2. Finish coat
    a. Metal corner strip
    b. Outside corner molding
3. Finishes
    a. Paint
    b. Wallpaper

C. Gypsum Wallboard
1. Dimple nailing
2. Joint reinforcing tape
3. Joint finish compound

4. Finishes
    a. Paint
    b. Wallpaper

D. Panel
1. Vertical mounting
2. Horizontal mounting
    a. Sizing
    b. Plumb or level
    c. Securing
        (1) Brads
        (2) Adhesive
        (3) Corner moldings

E. Base Trim
1. Baseboard
    a. Single member
    b. Two member
    c. Three member
2. Base molding
    a. Base cap
    b. Base shoe

IV. METAL WINDOWS AND TRIMS

A. Installation in Concrete
1. Furring lath backing
    a. Height
    b. Width
        (1) Blocking
        (2) Plumb and level
2. Installation
    a. Free fit
    b. Secure, plumb and level
3. Inside trim
    a. Plaster or wood return and trim
    b. Ceramic tile or marble sill
4. Outside plaster finish
    a. Head and jamb
    b. Brick, stone or plaster sill

B. Installation in Wood
1. Height and width
    a. Top jamb or casing
    b. Side jamb or casing
    c. Sill
    d. Blocking, plumb and level
2. Installation
    a. Snug fit
    b. Secure
3. Outside trim
    a. Accompanying
    b. Custom or brick mold
4. Inside trim
    a. Wood return and casing
    b. Marble or wood sill

V. QUINMESTER POST-TEST 12

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A P P E N D I X

Quinmester Post-Test Sample

QUINMESTER POST-TEST

Name_____Date_____Score_____

Multiple Choice

1. A rough base boat applies to
   a. plastering
   b. weather
   c. painting
   d. floor material

2. Wire lath is used for
   a. concrete
   b. doors.
   c. plaster
   d. panels

3. A material for inside walls is
   a. sheathing
   b. plumbing
   c. brick
   d. rock lath

4. Wire lath is used to secure
   a. plaster
   b. mortar
   c. trim
   d. steel bars

5. Metal anchors for concrete veneer work is first fastened to
   a. mortar on stone
   b. outside wall
   c. inside wall
   d. brick

6. Sheathing is normally fastened to
   a. headers
   b. studs
   c. beams
   d. doors

7. Building felt or plastic is used to keep out the
   a. cold
   b. rain
   c. moisture
   d. heat

8. Wood siding is used on the
   a. concrete
   b. roof
   c. floor
   d. wall

9. Plaster is applied to
   a. felt or plastic
   b. gypsum lath
   c. gypsum wallboard
   d. adhesive

10. Wall panels are secured by using
   a. brads or adhesive
   b. adhesive and tape
   c. tape
   d. staples

11. Furring lath is used as backing for
   a. panels
   b. sills
   c. corner molding
   d. headers

12. Dimple nailing is used in applying
   a. trim
   b. baseboards
   c. gypsum wallboard
   d. flashing

13. When installing metal windows in concrete openings, we use
   a. steel hooks
   b. adhesive
   c. furring lath
   d. siding

14. When installing metal windows in a wood frame opening, we use a
   a. line
   b. saw
   c. hand level
   d. nails

15. Window and door brick mold is used
   a. inside
   b. outside
   c. only on brick
   d. never on brick

16. Tongue and groove applies to
   a. framing
   b. tools
   c. walls
   d. lumber

17. To plumb a wall panel, we use a
   a. level
   b. transit
   c. square
   d. brace

18. An adhesive can be used to fasten
   a. panels
   b. gypsum lath
   c. rock lath
   d. shut rock

ANSWER KEY TO QUINMESTER POST-TEST

1. a
2. c
3. d
4. a
5. b
6. b
7. c
8. d
9. b
10. a
11. a
12. b
13. c
14. c
15. b
16. d
17. a
18. a